

(12) INTERNATIONAL PATENT APPLICATION  
PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Organization for Intellectual Property  
International Office



(43) International Publication Date:  
June 10, 2004 (6/10/2004)

PCT

(10) International Publication Number:  
WO 2004/049359 A1

- |  |  |
|--|--|
| <p>(51) International Patent Classification<sup>7</sup>:<br/>H01F 1/057</p> <p>(21) International Application No.:<br/>PCT/EP2003/013383</p> <p>(22) International Filing Date:<br/>November 27, 2003 (11/27/2003)</p> <p>(25) Language of Patent Submission: German</p> <p>(26) Language of Patent Publication:<br/>German</p> <p>(30) Priority Information: 102 55 604.0<br/>November 28, 2002 (11/28/2002)<br/>Germany</p> <p>(71) Applicant (for all contracting nations except the<br/>United States): Vacuumschmelze GmbH &amp; Co.,<br/>KG [Vacuum Melt Co.] [Germany/Germany],<br/>Grüner Weg 37, 63450 Hanau (Germany).</p> | <p>(72) Inventor; and<br/>(75) Inventor/Applicant (only for the United States):<br/>Georg REPPEL, Werner [Germany/ Germany],<br/>Goldbergstrasse 4, 63546 Hammersbach (Germany).</p> <p>(74) Attorney: Bernhard SCHMUCKERMAIER,<br/>Westphal, Musgnug &amp; Partners, Mozartstrasse 8,<br/>80336 Munich (Germany).</p> <p>(81) Contracting nations (national): JP, US.</p> <p>Published<br/>- with the International Search Report<br/>- before expiration of the period allowed for changes in the<br/>claims; publication to be repeated if changes are made</p> |
|--|--|

[continued on next page]

(54) Title: METHOD FOR THE PRODUCTION OF AN ANISOTROPIC MAGNETIC POWDER AND A BONDED ANISOTROPIC MAGNET  
PRODUCED THEREFROM

[see Figure 1 at end of text]

(57) Abstract: The invention relates to a method for the production of an anisotropic magnetic powder or a magnet produced from said powder, wherein a hydrogenating and dehydrogenating method is applied to the starting material in order to produce the powder. An anisotropic oriented magnetic material, more particularly magnetic scrap metal is advantageously used as starting material so that the complicated use of a molten mass with isotropic distribution of the c axes of the hard metal crystals is not required.

WO 2004/049359 A1

**WO 2004/049359 A1**



*For explanation of the two-letter code and the other abbreviations, reference is made to the explanations ("Guidance Notes on Codes and Abbreviations") at the beginning of each regular edition of the PCT Gazette.*